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19 May 2017

Charging when driving


by

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Renault partners with Qualcomm Technologies and Vedecom to demonstrate dynamic wireless electric vehicle charging (DEVIC) - 20 kilowatts charging at a speed of 62 miles per hour (100km/h).

Renault demonstrated dynamic wireless electric vehicle charging (DEVIC), which allows vehicles to charge 

while driving. Renault has participated with Qualcomm Technologies and Vedecom in designing a DEVC system capable of charging an electric vehicle dynamically with a charge of up to 20 kilowatts at speeds up to, and in excess of, 62 miles per hour (100kmh). The DEVC system has been designed to support real-world implementation of dynamic charging. The two Renault Kangoo Z.E. vehicles can pick up charge in both directions along the track.

The dynamic charging demonstrations took place at the 100-metre test track, built by Vedecom at Satory, Versailles, near Paris, within the FABRIC project. Qualcomm Technologies and Vedecom installed the primary part of the DEVC system in the test track, whilst Vedecom and Renault installed the secondary part onto two Renault Kangoo Z.E.. The DEVC system will shortly be handed over to Vedecom to perform tests for FABRIC. The tests will evaluate the operation and efficiency of energy transfer to the vehicles for a wide range of practical scenarios including vehicle identification and authorization on entering track, power level agreement between track and vehicle, speed and alignment of vehicle along track.

FABRIC* is a €9 million project, partly-funded by the European Union, addressing the technological feasibility, economic viability, and socio-environmental sustainability of wireless DEVC. The project began in January 2014 and will continue through December 2017, and is being undertaken by a consortium of 25 partners from nine European countries, including automotive manufacturers, suppliers, service providers and research organizations from automotive, road and energy infrastructure domains. The main aim of FABRIC is to conduct feasibility analysis of wireless DEVC as a means of EV range extension.

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